

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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10. Document ID: US 5985106 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985106

DOCUMENT-IDENTIFIER: US 5985106 A

TITLE: Continuous rack plater

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Velasquez; Geronimo Z.	Albuquerque	NM	87114	N/A

US-CL-CURRENT: 204/202; 118/412, 118/415, 118/426, 204/203, 204/237

ABSTRACT:

A continuous plating system which is horizontal, allows for submersion of the entire article to be plated, and is useful for alloy plating. The invention provides a link/hinge conveyor system, the conveyor acts as the conductor, numerous processes/baths are possible, and difficult to plate alloys, such as a tin/bismuth plate can be produced. Homogeneous alloys are possible with the present invention. Also disclosed are novel dryer and rinse systems for use with the continuous plating system.

44 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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Term	Documents
AIR	1848005
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PRESSURIZED	204098
PRESSURISED	69493
3 AND ((PRESSURIZED ADJ AIR) OR (COMPRESSED ADJ AIR) OR AIR)	9312

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US-PAT-NO: 5985420

DOCUMENT-IDENTIFIER: US 5985420 A

TITLE: Plastic lenses and method of producing the same

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haga; Mitsunobu	Matsudo	N/A	N/A	JPX
Onisawa; Yoshio	Ibo-gun	N/A	N/A	JPX
Shimizu; Kohei	Kobe	N/A	N/A	JPX

US-CL-CURRENT: 428/212; 427/162, 427/164, 427/407.1, 427/487, 427/508, 427/510,
428/412, 428/522, 522/178, 522/182, 522/184, 522/185, 522/186, 522/188

ABSTRACT:

A plastic lens comprising the first acrylic hard coated layer formed on the outside surface of a plastic lens base and, in the inside surface, an antifogging coated layer with interposing of the second acrylic hard coated layer is obtained by coating the both sides of a plastic lens base with an acrylic hard coating agent, masking the outside surface with a peelable masking agent (e.g. a coating composition containing poly(vinyl chloride) or vinyl chloride-vinyl acetate copolymer), coating at least the inside surface with an antifogging agent, and removing the masking layer. As the hard coating agent or antifogging agent, use can be made of an ultraviolet-curable resin composition, and as the masking agent, a coating composition containing a poly(vinyl chloride) or vinyl chloride-vinyl acetate copolymer may be employed.

3 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Image
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7. Document ID: US 5985412 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985451
DOCUMENT-IDENTIFIER: US 5985451 A

TITLE: Elastic product

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Senda; Masanobu	Inazawa	N/A	N/A	JPX
Ogisu; Yasuhiko	Nagoya	N/A	N/A	JPX

US-CL-CURRENT: 428/408, 228/199, 249/114.1, 249/115, 427/577, 428/411.1, 428/457,
428/548, 428/551, 428/552, 428/698

ABSTRACT:

A master brake cylinder comprises a reservoir and a cylinder for generating fluid pressure. Provided in the cylinder is a sliding piston, and mounted to front and rear ends of piston are piston cups for sealing a gap between the piston and the cylinder. The piston cups comprise a substrate made of rubber and a coating layer made of diamond-like carbon and provided on an outer peripheral surface (sliding surface) of the substrate. A surface of the coating layer constitutes a sliding surface, and so a frictional resistance thereof relative to an inner peripheral surface of the cylinder, on which the coating layer slides, is made relatively low. The coating layer can easily follow deformation of the substrate and securely adheres to the substrate.

11 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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6. Document ID: US 5985420 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985790

DOCUMENT-IDENTIFIER: US 5985790 A

TITLE: Method of making acid contacted enhanced aluminum oxide adsorbent particle

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moskovitz; Mark L.	Atlanta	GA	N/A	N/A
Kepner; Bryan E.	Atlanta	GA	N/A	N/A

US-CL-CURRENT: 502/415; 423/604, 423/605, 423/608, 423/610, 423/626, 423/628,
502/324 , 502/336, 502/338, 502/345, 502/349, 502/350, 502/353, 502/355, 502/400,
502/408, 502/414

ABSTRACT:

This invention relates to a process for producing an enhanced adsorbent particle comprising contacting a non-amorphous, non-ceramic, crystalline, porous, calcined, aluminum oxide particle that was produced by calcining at a particle temperature of from 400.degree. C. to 700.degree. C., with an acid for a sufficient time to increase the adsorbent properties of the particle. A process for producing an enhanced adsorbent particle comprising contacting a non-ceramic, porous, oxide adsorbent particle with an acid for a sufficient time to increase the adsorbent properties of the particle is also disclosed. Particles made by the process of the instant invention and particle uses, such as remediation of waste streams, are also provided.

56 Claims, 1 Drawing figures

Exemplary Claim Number: 1,56

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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5. Document ID: US 5985451 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985811

DOCUMENT-IDENTIFIER: US 5985811 A

TITLE: Cleaning solution and cleaning method

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masayuki; Toda	Yamagata-ken	N/A	N/A	JPX
Ohmi; Tadahiro	Miyagi-ken	N/A	N/A	JPX
Harada; Yasuyuki	Juchu	N/A	N/A	JPX

US-CL-CURRENT: 510/175; 134/1.3, 510/370, 510/405

ABSTRACT:

A cleaning solution and cleaning method are provided which: (1) make treatment at room temperature possible, and do not require heating, (2) use little chemicals and water, (3) do not require specialized apparatuses, and moreover, (4) do not require the use of specialized chemicals. The cleaning solution of the present invention comprises pure water containing 20 ppb-100 ppb of oxygen and 2 ppb or more of nitrogen. Furthermore, the cleaning solution may comprise electrolytically ionized water containing OH.sup.- and containing 20 ppb-100 ppb of oxygen. In the cleaning method of the present invention, the cleaning of a material to be cleaned is conducted in a cleaning solution comprising pure water containing 20 ppb-100 ppb of oxygen and 2 ppb-15 ppm of nitrogen, while applying ultrasound having a frequency of 30 kHz or more. Furthermore, in the cleaning method of the present invention, the cleaning of a material to be cleaned may be conducted in a cleaning solution comprising electrolytically ionized water containing OH.sup.- and containing 20 ppb-100 ppb of oxygen, while applying ultrasound having a frequency of 30 kHz or more.

53 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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4. Document ID: US 5985790 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985817

DOCUMENT-IDENTIFIER: US 5985817 A

TITLE: Pourable, thickened aqueous bleach and abrasive containing compositions

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weibel; A. Thomas	Cranbury	NJ	N/A	N/A
Lynch; Ann Marie	Glen Rock	NJ	N/A	N/A
Nunez; Rosita Gabriella	Nutley	NJ	N/A	N/A
Wang; Helen B.	Manalapan	NJ	N/A	N/A
Hagroo; Pranil Pooran	Durban	N/A	N/A	ZAX
February; Leonard	Johannesburg	N/A	N/A	ZAX

US-CL-CURRENT: 510/369; 510/380, 510/397, 510/399, 510/418, 510/430

ABSTRACT:

The inventive compositions are pourable aqueous bleach composition which contain abrasives, suitable for use in cleaning hard surfaces such as are found, for example, in lavatories and kitchens. The compositions of the invention show good shelf life, exhibit a high level of bleach stability and show good stain and soil removal, particularly from hard surfaces.

26 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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3. Document ID: US 5985811 A

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File: USPT

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985929

DOCUMENT-IDENTIFIER: US 5985929 A

TITLE: Cold chemical sterilant

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kern; Jerome	Hillsborough County	FL	33629	N/A

US-CL-CURRENT: 514/588

ABSTRACT:

A cold chemical sterilant capable of killing a challenge of vegetative target organisms including bacterial spores comprising a composition of interactive constituents including a monohydric alcohol, an urea salt, a polyhydric alcohol, a surface active agent and water in proportion by weight to destroy the protective integrity of the walls of the bacterial spores, to penetrate the walls of the bacterial spores and to kill the bacterial spores and other vegetative target organisms.

14 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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2. Document ID: US 5985817 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985402
DOCUMENT-IDENTIFIER: US 5985402 A

TITLE: Magnetic disk and its manufacturing method

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Takao	Yokohama	N/A	N/A	JPX
Shirakura; Takaaki	Chigasaki	N/A	N/A	JPX
Kataoka; Hiroyuki	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 428/65.3; 428/141, 428/694SG, 428/694ST

ABSTRACT:

In a thin film magnetic disk, a micro projections are formed on a substrate in a circumferential direction. A height of the micro projections is several nm to several tens of nm and a density of the micro projections is several hundred pcs/mm to several tens of thousands of pcs/mm.^{sup.2} With this arrangement, a magnetic disk fulfilling a head floating characteristic of a narrow space and further fulfilling a mechanical anti-sliding characteristic such as a contact start-stops characteristic and a head stickiness and the like is provided so that high reliability is attained. In the thin film magnetic disk, a bearing ratio curve of a sectional shape measured in a radial direction of the textured substrate has a bearing ratio of 0.1 to 10% at the surface layer (a cutting height of 5 to 10 nm). In this way, a pressure receiving area under a sliding of the magnetic head is increased.

12 Claims, 35 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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9. Document ID: US 5985156 A

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File: USPT

Nov 16, 1999

US-PAT-NO: 5985156

DOCUMENT-IDENTIFIER: US 5985156 A

TITLE: Automatic swimming pool cleaning system

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Henkin; Melvyn L.	Ventura	CA	93001	N/A
Laby; Jordan M.	Ventura	CA	93001	N/A

US-CL-CURRENT: 210/744; 134/167R, 15/1.7, 210/143, 210/169, 210/242.1, 210/776, 210/97

ABSTRACT:

A pool cleaning method and apparatus for selectively positioning a unitary body either close to the water surface or close to the bottom wall surface. In an exemplary embodiment, the body rests at the bottom and the subsystem lifts the device to the water surface for operation in a water surface cleaning mode to collect floating debris. A propulsion subsystem is preferably incorporated to move the body along the wall surface and/or water surface.

22 Claims, 28 Drawing figures

Exemplary Claim Number: 19

Number of Drawing Sheets: 27

US-PAT-NO: 5985412

DOCUMENT-IDENTIFIER: US 5985412 A

TITLE: Method of manufacturing microstructures and also microstructure

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gosele; Ulrich	Halle	N/A	N/A	DEX

US-CL-CURRENT: 428/172; 156/281, 156/306.3, 428/178

ABSTRACT:

A method of manufacturing microstructures in which a hollow cavity is formed in a first wafer, in particular, a silicon wafer, and the hollow cavity is, covered over by a second wafer, which is in particular, also a silicon wafer, by a wafer bonding process in vacuum for the formation of an enclosed hollow cavity, wherein the wafer bonding is carried out in an ultra-high vacuum in order to achieve the smallest possible internal pressure in the hollow cavity of less than 0.1 mbar. The surfaces of the wafers which are to be brought into contact with one another are treated by a surface cleaning process in order to produce at least substantially pure surfaces, i.e. surfaces which consist substantially only of the material of the respective wafer and which are at least substantially free of H.sub.2 O, H.sub.2 and O.sub.2. A microstructure is also claimed.

11 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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8. Document ID: US 5985402 A

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